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5.11 Output PowerProblems; 6. Cavity Optics; 6.1 Requirements for a Resonator; 6.2 Gain and Loss in a Cavity; 6.3 Resonator as an Interferometer; 6.4 Longitudinal Modes; 6.5 Wavelength Selection in Multiline Lasers; 6.6 Single-Frequency Operation; 6.7 Characterization of a Resonator; 6.8 Gaussian Beam; 6.9 Resonator Stability; 6.10 Common Cavity Configurations; 6.11 Spatial Energy Distributions: Transverse Modes; 6.12 Limiting Modes; 6.13 Resonator Alignment: A Practical Approach; Problems; 7. Fast-Pulse Production; 7.1 Concept of Q-Switching; 7.2 Intracavity Switches
7.3 Energy Storage in Laser Media

Sommario/riassunto

A comprehensive introduction to the burgeoning field of photonicsThe field of photonics is finding increasing applications across a broad range of industries. While many other books provide an overview of the subject, Fundamentals of Light Sources and Lasers closes a clear gap in the current literature by concentrating on the principles of laser operation as well as providing coverage of important concepts necessary to fully understand the principles involved. The scope of the book includes everything a professional needs to get up to speed in the field, as well as all the material necessa